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Benthic Infaunal Surveys of British Columbia fjords, 1988 to 1990

B.J. Burd[1]
and
R.O. Brinkhurst[2]

Department of Fisheries and Oceans
Institute of Ocean Sciences
Sidney, B.C.

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B.J. Burd[1]

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R.O. Brinkhurst[2]

Department of Fisheries and Oceans
Institute of Ocean Sciences
Sidney, B.C.

[1] Brenda J. Burd
Galatea Research Inc.
Brentwood Bay, B.C.

[2] Ralph O. Brinkhurst
Aquatic Resource Centre
Franklin, Tennessee.

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ABSTRACT

Burd, B.J. and R.O. Brinkhurst. 1992. Benthic infaunal surveys of British Columbia fjords, 1988 to 1990. Can. Data Rep. Hydrogr. Ocean Sci. 114: 37pp.

This report tabulates the data collected during three separate benthic infaunal surveys of British Columbia mainland fjords. Benthic faunal samples, sediment particle size and depth data were collected in a series of fjords in 1988, 1989 and 1990. The work was conducted as part of the benthic ecology program in the Ecology Division of the Institute of Ocean Sciences, Sidney, B.C.

Keywords: benthic infauna, fjords

RESUME

Burd, B.J. and R.O. Brinkhurst. 1992. Levées de faune benthique des fjords de la côte continentale de la Colombie Britannique en 1988, 1989 et 1990. Can. Data Rep. Hydrogr. Ocean Sci. 114: 37pp.

Ce rapport décrit la somme des données rassemblées au cours de trois levées de faune benthique des fjords de la côte continentale de la Colombie Britannique en 1988, 1989 et 1990. Ces données comprennent les échantillons de faune benthique, les indications de grosseur des particules de sédiment, et de profondeur. Ce travail fait partie du programme d'écologie benthique, Division de l'Ecologie, Institut des Sciences de la Mer, Sidney, C.B.

Mots Clés: faune benthique, fjords

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INTRODUCTION AND METHODS

The benthic infauna of a series of British Columbia fjords was sampled by the Ocean Ecology Division of Fisheries and Oceans, Canada. This work was part of a program to examine and compare benthic communities in a variety of habitats and environmental conditions. Station locations are listed in Table 1 and illustrated in Figures 1 to 3. Sixteen stations were sampled from January 19 to 25, 1988, 13 were sampled from October 23 to November 10, 1989 and 29 were sampled from July 30 to August 10, 1990. Two replicate grabs were taken for each station, except station 6 in cruise 1 (F16), which had only one. For stations 14 and 20 in cruise 1, replicates A,B represent one sample station; C,D represent another station and E,F represent a third station.

Samples were collected using a 0.1 m^2 Smith-McIntyre grab. A 100 ml core was collected from each grab prior to extraction of the remaining sample from the grab. The core sample was processed to determine percent gravel, silt and sand content of sediments, using the Wentworth method for sieving sediments (Wentworth 1922). Results of sediment particle size analyses and station depths are included in Table 1.

The sediment from the grab was washed carefully with 0.25 mm filtered seawater through a 1 mm screen. Animals and particles retained were preserved in 10% buffered Rose Bengal stained formalin in plastic jars for transport to the laboratory. Samples were sorted in the laboratory after washing through a 1mm screen, then preserved in 70% ethanol in homeopathic vials with neoprene stoppers. Ten percent of the sorted residues were reexamined by an independent sorter as a quality control. A five percent error in total number of fauna in the grab sample was the maximum permitted, but no control sample exceeded this limit. Sorted samples were sent directly to taxonomic experts for identification and production of a reference collection of identified species. Taxonomic nomenclature follows Austin (1985). Reference collections are stored at the Institute of Ocean Sciences (contact D. Moore). Taxonomic authorities used for identifications are as follows:

Polychaeta: H. Jones, Marine Taxonomic Services, Corvallis, Oregon
Amphipoda: C. Staude, Friday Harbour Marine Laboratory, Friday Harbour, Washington
Mollusca: R. Reid, University of Victoria, B. C.
Varia (crustacea, echinodermata, sipuncula, nemertea, etc.): W. Austin, Khoyatan Marine Laboratory, Cowichan Bay, B.C.

Abundance per $0.1m^2$ for each species is given for the three cruises in Appendices A to C respectively.

ACKNOWLEDGEMENTS

We thank D. Moore for assistance with collection and sorting of faunal samples, and processing of sediment samples, and the crews of the CSS Vector and John P. Tully, Institute of Ocean Sciences, J. Boyd and D. Goyette, Environment Canada, and D. Bright, University of Victoria, for technical assistance and help during field sampling.

REFERENCES

Austin, W. 1985. An annotated checklist of marine invertebrates in the cold temperate northeast Pacific. Khoyatan Marine Laboratory, Cowichan Bay, B.C. 682pp.

Wentworth, C.K. 1922. A scale of grade and class terms for clastic sediments. J. Geol. 30: 377-392.

Table 1. British Columbia Fjords Environmental data. F1, F2, F3 indicate studies from 1988, 1989 and 1990 respectively. The last letter in the station name represents the replicate number (A to F), and the remaining numbers and letters represent station names.

STATION	LATITUDE	LONGITUDE	DEPTH	%SILT	%SAND	%GRAVEL
October 1988						
F15AA	127°40.50	51°59.50	241	49.6	50.4	0.0
F15AB	127°40.50	51°59.50	241	43.5	56.0	0.5
F15BA	127°38.50	52°05.00	343	92.5	7.5	0.0
F15BB	127°38.50	52°05.00	343	92.1	7.9	0.0
F15CA	127°33.00	52°09.00	433	91.9	8.1	0.0
F15CB	127°33.00	52°09.00	433	75.9	24.1	0.0
F15DA	127°27.50	52°05.70	363	90.0	9.8	0.2
F15DB	127°27.50	52°05.70	363	91.5	7.8	0.7
F16A	127°21.07	52°14.04	590	90.4	9.6	0.0
F19A	127°01.80	52°38.10	494	97.9	2.1	0.0
F19B	127°01.80	52°38.10	494	97.9	2.1	0.0
F110A	127°46.20	52°15.80	445	97.4	2.6	0.0
F110B	127°46.20	52°15.80	445	96.5	3.5	0.0
F113A	129°07.90	53°10.50	570	77.8	22.2	0.0
F113B	129°07.90	53°10.50	570	66.3	33.7	0.0
F114A	129°12.00	53°34.00	301	22.5	74.4	3.1
F114B	129°12.00	53°34.00	301	29.0	67.9	3.1
F114C	129°09.00	53°39.00	370	26.3	59.6	14.1
F114D	129°09.00	53°39.00	370	26.5	66.0	7.5
F114E	129°02.90	53°43.70	360	94.7	5.3	0.0
F114F	129°02.00	53°43.70	360	92.6	7.4	0.0
F115A	128°50.00	53°48.50	357	99.4	0.6	0.0
F115B	128°50.00	53°48.50	357	98.7	1.3	0.0
F118A	130°10.70	55°04.40	222	99.3	0.7	0.0
F118B	130°10.70	55°04.40	222	99.1	0.9	0.0
F120A	130°02.00	55°25.00	233	97.0	3.0	0.0
F120B	130°02.00	55°25.00	233	97.3	2.7	0.0
F120C	129°59.50	55°19.00	256	98.5	1.5	0.0
F120D	129°59.50	55°19.00	256	98.0	2.0	0.0
F120E	130°07.50	55°10.00	310	96.3	3.7	0.0
F120F	130°07.50	55°10.00	310	96.2	3.8	0.0
October 1989						
F215A	128°46.50	53°52.00	318	0.0	11.7	88.2
F215B	128°46.50	53°52.00	318	0.0	1.0	98.9
F216A	130°18.10	54°33.20	378	0.2	64.0	35.7
F216B	130°18.10	54°33.20	349	0.0	35.4	64.5
F217A	130°10.70	54°27.20	325	0.0	1.0	98.9

Table 1. (continued)

STATION	LATITUDE	LONGITUDE	DEPTH	%SILT	%SAND	%GRAVEL
F217B	130°10.70	54°27.20	313	0.0	1.3	98.7
F222A	128°37.80	53°51.00	221	0.0	1.8	98.1
F222B	128°37.80	53°51.00	216	0.6	1.7	97.6
F240A	127°34.20	51°07.70	221	62.6	15.1	22.1
F240B	127°34.20	51°07.70	221	62.6	15.1	22.1
F241A	127°27.80	51°07.80	219	0.0	0.6	99.3
F241B	127°27.80	51°07.80	220	0.0	1.5	98.4
F244A	127°02.90	51°06.60	348	0.0	9.1	90.9
F244B	127°02.90	51°06.60	348	0.0	9.1	90.9
F250A	127°14.90	51°02.90	465	0.0	1.7	98.3
F250B	127°14.90	51°02.90	482	0.0	4.9	95.0
F251A	127°08.10	51°03.10	580	0.0	0.3	99.6
F251B	127°08.10	51°03.10	574	0.0	0.7	99.2
F252A	127°00.80	51°04.30	635	0.3	9.8	89.9
F252B	127°00.80	51°04.30	654	0.0	1.7	98.2
F253A	126°55.10	51°04.40	588	0.0	0.6	99.4
F253B	126°55.10	51°04.40	580	0.0	0.9	99.0
F254A	126°45.30	51°05.80	321	0.0	4.9	95.1
F254B	126°45.30	51°05.80	328	0.0	9.9	90.1
F255A	126°41.30	51°08.30	388	0.0	9.5	90.5
F255B	126°41.30	51°08.30	386	0.0	10.0	89.9
July 1990						
F3BO1A	126°10.90	50°50.50	134	99.4	0.6	0.0
F3B01B	126°10.90	50°50.50	137	99.6	0.4	0.0
F3BU1A	125°05.20	50°24.30	660	98.5	1.5	0.0
F3BUIB	125°05.20	50°24.30	660	99.2	0.8	0.0
F3BU2A	125°03.70	50°29.70	650	99.0	1.0	0.0
F3BU2B	125°03.70	50°29.70	650	99.0	1.0	0.0
F3BU3A	124°54.50	50°34.10	645	95.2	4.8	0.0
F3BU3B	124°54.50	50°34.10	649	70.6	29.4	0.0
F3BU5A	123°54.60	50°45.40	470	91.4	8.6	0.0
F3BU5B	123°54.60	50°45.40	470	95.6	4.4	0.0
F3BU6A	123°53.00	50°50.20	340	99.7	0.3	0.0
F3BU6B	123°53.00	50°50.20	340	99.7	0.3	0.0
F3JE1A	123°54.10	49°51.30	678	97.2	2.8	0.0
F3JE1B	123°54.10	49°51.30	650	64.0	36.0	0.0
F3JE2A	123°56.40	49°54.60	660	96.9	3.1	0.0
F3JE2B	123°56.40	49°54.60	660	96.0	4.0	0.0
F3JE3A	123°56.40	50°00.60	560	94.3	5.7	0.0
F3JE3B	123°56.40	50°00.60	560	94.6	5.4	0.0
F3JE4A	123°48.70	50°03.70	537	97.4	2.6	0.0
F3JE4B	123°48.70	50°03.70	537	96.8	3.2	0.0
F3JE5A	123°49.30	50°07.70	366	98.0	2.0	0.0
F3JE5B	123°49.30	50°07.70	366	98.2	1.8	0.0
F3JE6A	123°54.30	50°10.10	329	97.0	3.0	0.0
F3JE6B	123°54.30	50°10.10	329	97.6	2.4	0.0
F3KI1A	126°32.50	50°54.70	480	99.3	0.7	0.0

Table 1. (continued)

STATION	LATITUDE	LONGITUDE	DEPTH	%SILT	%SAND	%GRAVEL
F3KI1B	126°32.50	50°54.70	480	98.4	1.6	0.0
F3KI2A	126°24.20	50°55.50	394	99.2	0.8	0.0
F3KI2B	126°24.20	50°55.50	394	99.7	0.3	0.0
F3KI3A	126°17.00	50°55.20	266	89.4	10.6	0.0
F3KI3B	126°17.00	50°55.20	266	95.7	4.3	0.0
F3KI4A	126°31.30	51°00.30	325	96.2	3.8	0.0
F3KI4B	126°31.30	51°00.30	316	97.3	2.7	0.0
F3KN2A	125°47.20	50°41.70	331	99.4	0.6	0.0
F3KN2B	125°47.20	50°41.70	331	99.4	0.6	0.0
F3KN3A	125°39.60	50°45.70	530	99.7	0.3	0.0
F3KN3B	125°39.60	50°45.70	530	99.7	0.3	0.0
F3KN4A	125°39.80	50°51.20	514	71.0	29.0	0.0
F3KN4B	125°39.80	50°51.20	514	71.0	29.0	0.0
F3KN5A	125°32.10	50°57.40	372	83.3	16.7	0.0
F3KN5B	125°32.10	50°57.40	369	35.7	64.3	0.0
F3KN6A	125°34.00	50°02.50	190	98.8	1.2	0.0
F3KN6B	125°34.00	50°02.50	190	99.9	0.1	0.0
F3LO1A	125°33.60	50°31.20	202	99.4	0.6	0.0
F3LO1B	125°33.60	50°31.20	194	99.3	0.7	0.0
F3LO2A	125°32.60	50°33.40	290	99.3	0.7	0.0
F3LO2B	125°32.60	50°33.40	246	99.4	0.6	0.0
F3LO3A	125°32.50	50°36.30	256	99.4	0.6	0.0
F3LO3B	125°32.50	50°36.30	267	99.2	0.8	0.0
F3LO4A	125°27.60	50°41.20	185	92.5	7.5	0.0
F3LO4B	125°27.60	50°41.20	185	90.4	9.6	0.0
F3TH2A	126°05.60	50°46.40	185	99.6	0.4	0.0
F3TH2B	126°05.60	50°46.40	178	62.8	29.2	8.0
F3TO1A	124°43.50	50°20.30	506	98.8	1.2	0.0
F3TO1B	124°43.50	50°20.30	512	99.6	0.4	0.0
F3TO2A	124°37.00	50°24.50	478	99.7	0.3	0.0
F3TO2B	124°37.00	50°24.50	478	99.5	0.5	0.0
F3TO3A	124°26.70	50°26.80	290	98.2	1.8	0.0
F3TO3B	124°26.70	50°26.80	296	99.1	0.9	0.0

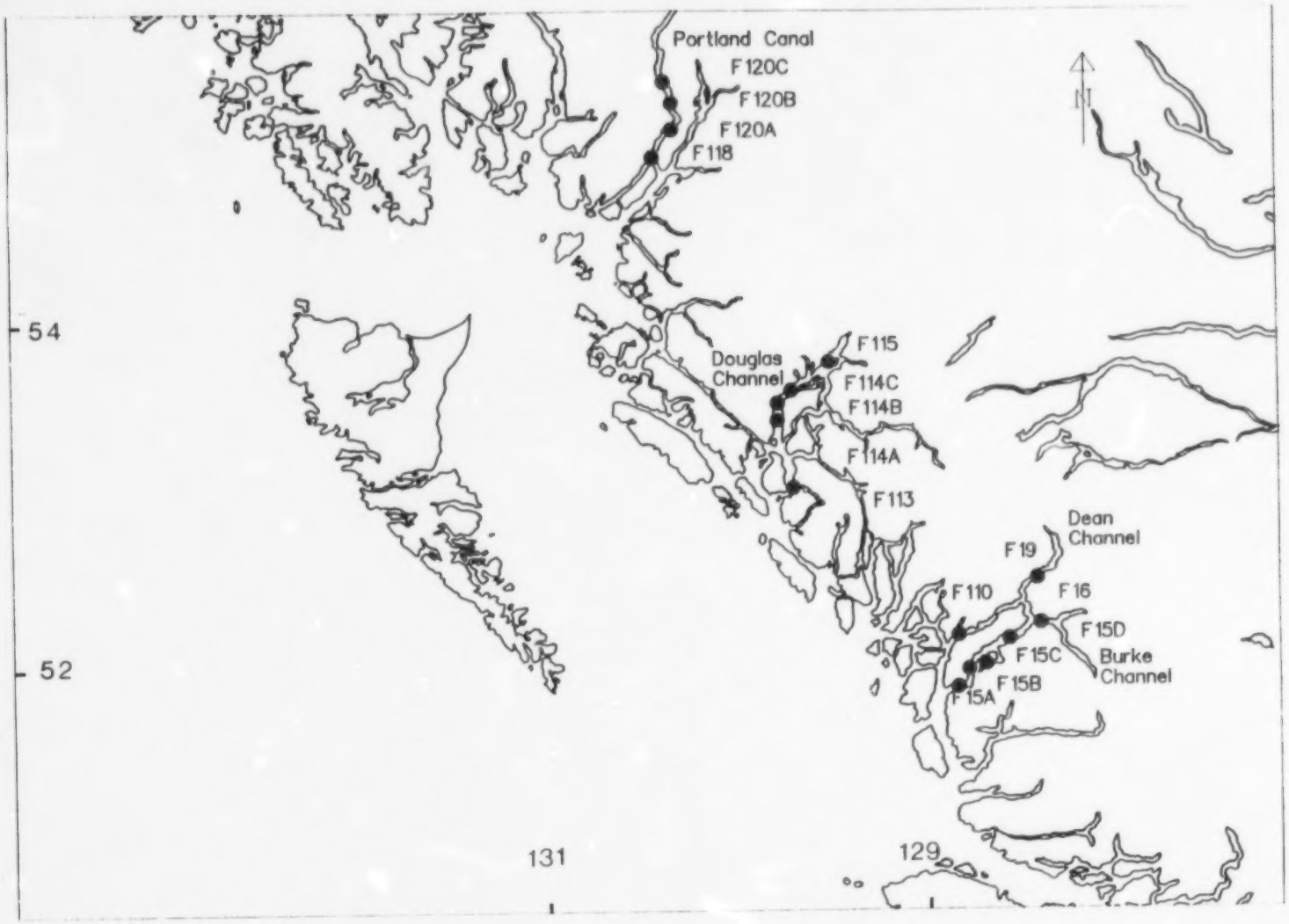

Figure 1. Station locations for cruise 1, October 1988. Station locations are listed in Table 1.

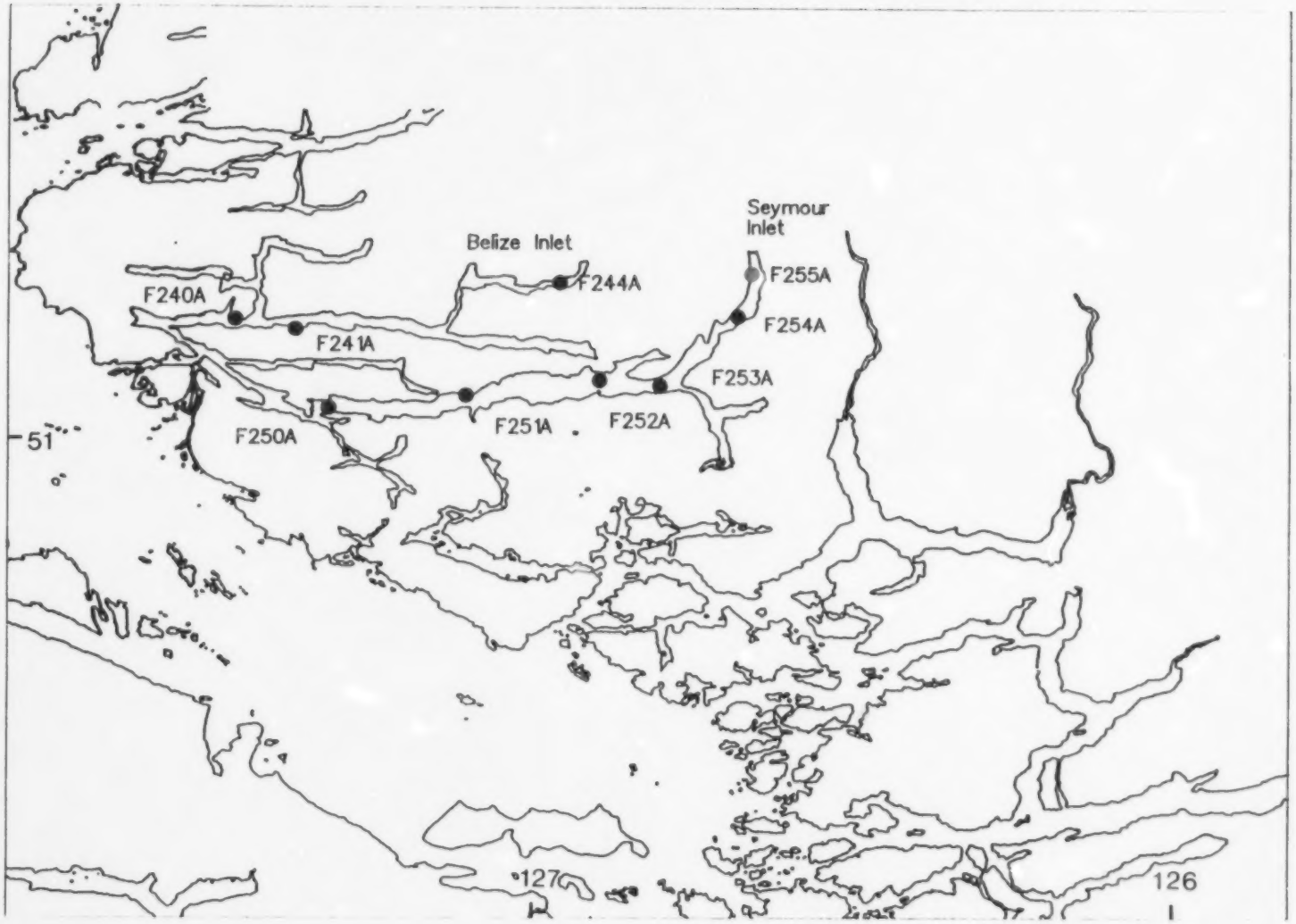

Figure 2. Southernmost station locations for cruise 2, October 1989. Station locations are listed in Table 1.

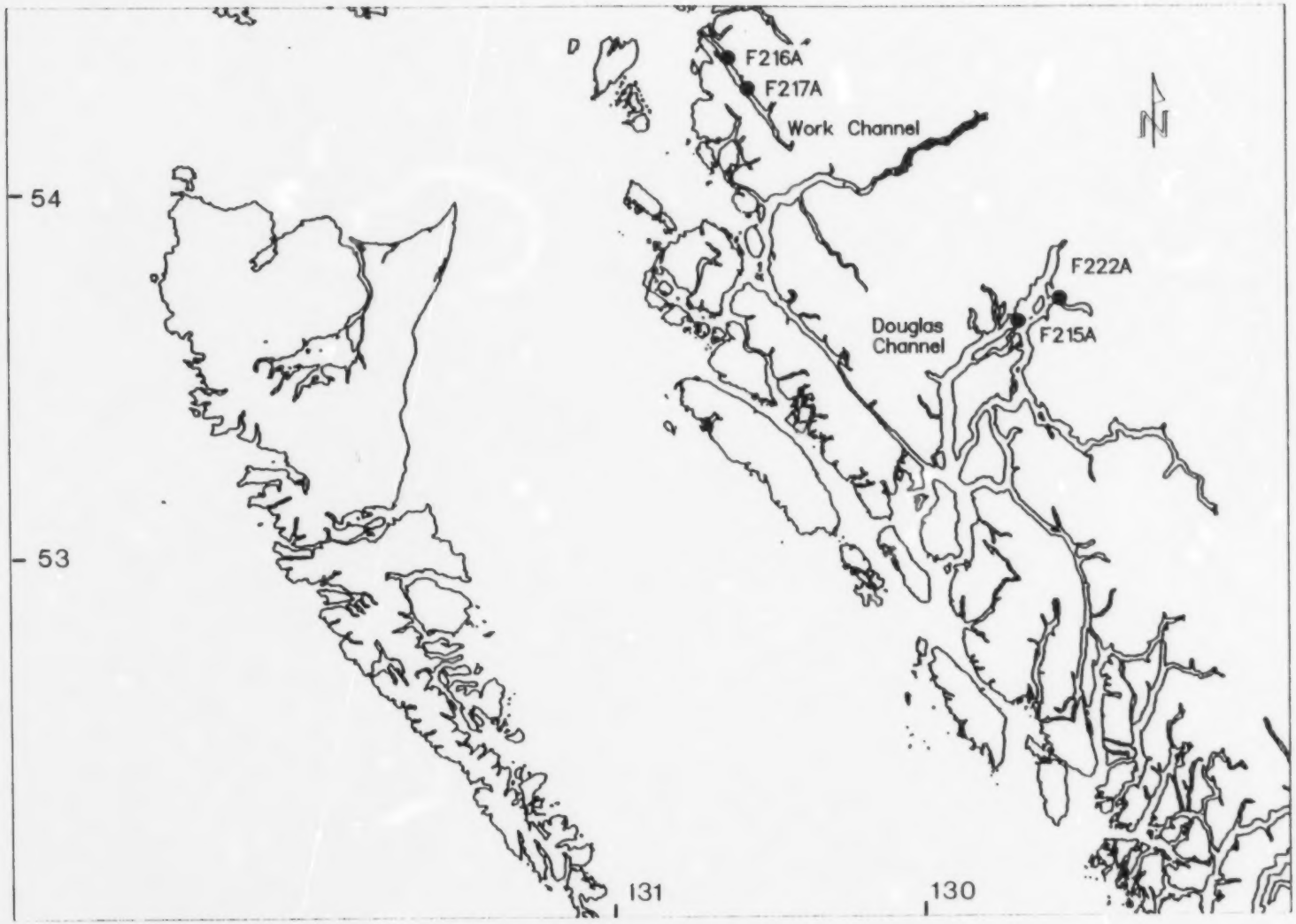

Figure 3. Northernmost station locations for cruise 2, October 1989.

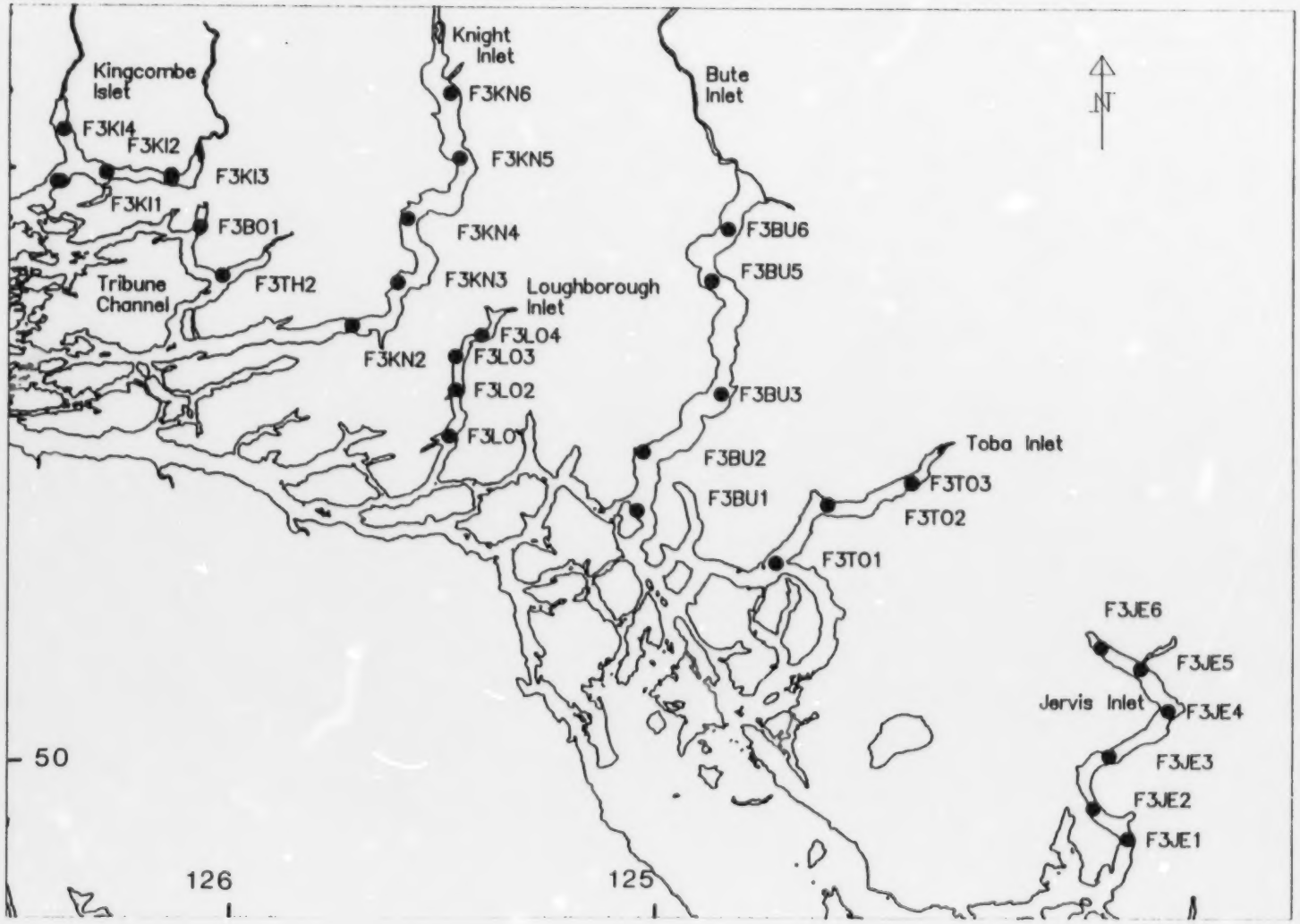

Figure 4. Station locations for cruise 3, July 1990. Station locations are listed in Table 1.

APPENDICES

Station names for the following abundance tables have been shortened for space consideration. Nomenclature is as described for Table 1, except that the "F" at the beginning of each name has been eliminated.

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m2

TAXON	154A	154B	156A	156B	15CA	15CB	150A	150B	164	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206
AMPHIPODA																															
Ampelisca agassizi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	1	3	0	0	0	1	0	0	0	0	0	0	0
Ampelisca brevisimulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Ampelisca uncocalae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Ampelisca pugetica	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bathymedon nepos	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bathymedon pumilis	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caprella irregularis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Caprella laeviuscula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Haploops tubicola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	36	40	0	0	0	0	27	7
Harpiniopsis fulgens	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterophoxus oculatus	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1
Ischyrocerus anguipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Monoculodes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Nicippe tumida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oedicerotidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraphoxus oculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0
Parathemisto	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pardaliscella symmetrica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Photis brevipes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Photis conchicola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0
Tritella	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
Urothoe denticulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	4	0	0	0	0	10	9	0	0	0	0	0	0
CUMACEA																															
Cumacea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Diastylis pellucida	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leucon nasica	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Diastylis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Eudorella emarginata	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	0	3	3	1	0	2	0	0	0	0	0	0	0	0	0
Diastylis spinulosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptostylis villosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
DECAPODA																															
Callianasa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TANAIDACEA																															
Gnathia trilobata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Appendix A: Fjord Survey: October 1968: Numbers per 0.1m2

TAXON	154A	154B	156A	156B	15CA	15CB	150A	150B	16A	19A	19B	110A	110B	113A	113B	114A	114B	114J	114K	114S	114W	115A	115B	118A	118B	120A	120B	120J	120K	120S	120W
Araphura brevicorns	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
OSTRACODA																															
Scleroconcha tritubercula	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
ECHINODERMATA																															
Ctenodiscus crispatus	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	0
Asteroidea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Brisaster latifrons	1	0	0	0	3	2	0	0	0	2	2	3	1	2	7	0	1	2	1	2	1	4	4	4	1	2	0	4	2	2	2
Molpadia intermedia	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	0	0	1	0	4	0	1	1	1	0	1	0
Chiridota albatrossi	3	6	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	2	2	1	1	0	0	0	2	0	0	0	2	1	0
Amphiuridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura leptoctenia	0	0	0	0	0	0	0	0	0	33	0	2	1	0	0	4	3	0	3	3	0	1	0	3	3	0	0	0	0	0	16
Ophiura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiocantha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Amphioplus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura sarsi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
BIVALVIA																															
Adontorhina cyclia	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Adontorhina ferruginosa	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	6	0	1	1	0	1	0	0	0	3	0	0	0	0	0	0
Axinopsida serricata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	1	0	4	0	0	0	4	1	0	2	1	0	0	1	1
Cardiomya pectinata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Cuspidaria apodema	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyclocardia ventricosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0
Delectopecten vancouverensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Diplodonta orbella	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	[illegible]	0	0	0	0	0
Lyonsia californica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Macoma aoesta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macoma brota	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	[illegible]	0	0	1	0	1	0
Modiolus difficilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	9	1	6	0	1	0	0	3	3	0	0	0	0	0	0
Nya arenaria	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Raeromya rugifera	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyssella tumida	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Nucula tenuis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	1	1	0	2	0	0
Nuculana tenuicula	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
Psephidia lordi	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thyasira gouldi	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	2	0	2	0	0	0	0	0	0	0	0	1

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m2

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	114C	114D	114E	115A	115B	118A	116B	120A	120B	120C	120D	120E	120F
Yoldia aertyrla	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	1	8	0	3	0	0	0	0	0	1	0	1	1	2	1	0
GASTROPODA																															
Amphissa bicolor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Buccinum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Cylichna attonsa	0	0	0	0	0	0	0	0	0	0	0	0	1		1	1	1	0	0	0	0	1	0	3	2	0	0	1	0	1	0
Leptogyra alaskana	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	1	0	1	0
Natica clausa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Philine polaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Plicifusus kroyeri	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Trichotropis borealis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Prochaetoderma yongei	4	0	0	0	0	0	0	0	0	0	0		1	0	0	0	1	0	0	1		0	1	0	0	0	0			1	1
Spathoderma denchi	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	3	0	1	0	0	1	1	0	0	0	0	0	0	0	0
APLACOPHORA																															
Chaetoderma attenuatum	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	1	0	1
Chaetoderma whitlachi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoderma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadulus tolmiei	2	1	0	1	1	1	0	0	0	0	0	1	0	1	4	8	6	3	0	1	1	0	1	0	3	0	3	0	0	1	1
SCAPHOPODA																															
Rhabdus rectius	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dentalium pretiosum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	1	0	0	0	0	0	1	2
POLYCHAETA																															
Aglaophamus malmgreni	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	5	1	2	0	1	0	0	0	0	0	0	0	0	0	0
Ampharete acutifrons	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampharete finmarchica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	1	2	3	0	0	0	0	0	0	0	0	0	0	0	2
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0
Amphitrite	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Anciotrocylis groenlandicus	0	0	1	0	0	2	0	0	0	0	0	1	0	0	1	0	1	0	1	2	4	2	1	0	0	0	0	1	1	0	0
Anobothrus gracilis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	16	0	4	1	1	0	0	3	1	0	0	0	0	3	1
Aoesta lopezi	3	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Aoesta neosuecica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Allia quadrilobata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aricidea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asychis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Autolytus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Brada villosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0

Appendix A: Fjord Survey: October 1968: Numbers per 0.1m2

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206
Chone ecaudata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirrophorus branchiatus	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clymenura columbiana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cossura longocirrata	4	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	3	0	0	0	1	0	1	1	1	0	0	0	0	0	0
Cossura modica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	1	0
Decamastus gracilis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Euchone incolor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Euclymene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Euclymene zonalis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0
Maldanidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	0	1	0	0	0	0	9	0	0	0	0	0	1	0
Eusyllis assimilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Exogone verugera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0
Galathowenia oculata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0	28	24	0	0	0	0	7	2
Gattyana cirrosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycera capitata	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Glycinde armigera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Glyphanostomum pallescens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	1	0	0	0	0	18	7	0	0	0	0	5	0
Goniada annulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	1	1	0	2	0	0	0	0	1	0
Podarkeopsis brevipalpa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Gyptis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Harmothoe lunulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Harmothoe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jasmineira pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Keferesteinia cirrata	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lepidonotus squamatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	0
Levinsenia gracilis	5	1	0	0	2	10	1	0	0	0	0	0	2	0	0	2	7	2	0	0	1	0	0	3	1	1	0	0	0	2	0
Lumbrineris bicirrata	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	0
Lumbrineris cruzensis	0	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Lumbrineris lagunae	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lumbrineris luti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	3	0	8	10	0	0	0	0	14	0
Lumbrineris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0
Lumbrineris zonata	8	3	1	0	0	0	0	0	0	0	0	3	2	0	5	0	12	6	5	12	6	0	6	0	0	5	6	3	0	0	4
Maldane glebifex	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	1	2	0	3	0	0	0	0	183	119	0	0	0	0	161	68
Mediomastus californiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	2	0
Mediomastus	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	4	0	0	0	0	0	1	0	0	0	0	0	0

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m2

TAXON	154A	154B	158A	158B	15CA	15CB	150A	150B	16A	19A	19B	110A	110B	115A	115B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206
Heloderviliea minuta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melinna cristata	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Mesochaetopterus taylori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nephtyidae	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nephtys cornuta franciscana	4	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	6	1	1	0	3	0	2	7	1	3	0	0	0	2	0
Nephtys punctata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0
Nephtys	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Odontosyllis phosphorea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Nothria iridescens	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Owenia fusiformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0
Paraninoe elapta	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	2	0	0	2	3	2	2	3	0	1	2
Pectinaria moorei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Pherusa negligens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	0	0	0	0	4	1
Pholoe minuta	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	2	2	2	1	0	0	0	3	1	8	1
Pista brevibranchiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Pista cristata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0
Pista pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pista	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycirrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Polydora socialis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0
Potamilla intermedia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Praxillella gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Praxillella praetermissa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio lighti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Prionospio steenstrupi	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	2	0	0	2	0	0	4	4	0	0	0	0	0	0	0	0
Proclea graffi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0
Rhodine bitorquata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Sabellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Sclerella japonica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoletoma squamata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0
Spionidae	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiophanes berkeleyorum	1	1	0	0	0	0	0	0	0	13	13	0	1	2	2	4	1	2	2	0	0	0	0	145	22	0	0	0	0	0	0
Spiophanes kroyeri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sternaspis scutata	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	1	1	1	0	0	0	0	0	0

Appendix A: Fjord Survey: October 1980: Numbers per 0.1m2

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	11BA	11DB	11EA	11EB	11AA	11AB	11AC	11AD	11AE	11AF	11BA	11BB	12DA	12DB	12DC	12DD	12DE	12DF
Syllidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0
Syllis heterochaeta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Syllis hyalina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	1	4	0	0	0	3	0
Terebellides californica	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15	8	2	1	0	0	0	1	4	1	0	0	0	1	0
Tharyx multifilis	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	1	0	0	0	0	0	0
Thelepus setosus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHELICERATA																														
Halacaridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
POGONOPHORA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTEA																														
Micrura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Paleonemertea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Heteronemertea	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Nemertea	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0
Cerebratulus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
NEMERTINEA																														
Nemertinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	1	0
SIPUNCULIDA																														
Sipuncula	2	1	0	0	0	0	0	0	0	8	36	1	3	0	1	284	72	29	59	42	34	0	0	171	129	0	0	0	1	38	12
CHAETOGNATHA																														
Chaetognatha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
HYDROZOA																														
Stegopoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
ANTHOZOA																														
Virgularia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Macrocylindrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m2

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
AMPHIPODA																											
Cyphocaris challengeri	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Harpiniopsis fulgens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0	1
Heterophoxus oculatus	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Monoculodes recandescus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Paraphoxus oculatus	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paratheneisto pacifica	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stenotheidae unident.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urothoe denticulata	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUMACEA																											
Eudorella pacifica	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA																											
Paraphoxa pacifica	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSTRACODA																											
Alacia alata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Eucarielia pseudospinosa	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MYSIDACEA																											
Mesmysis ryei	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PYCNOGONIDA																											
Nymphon	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nymphon grossipes	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EUPHAUSIACEA																											
Euphausia pacifica	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nematobrachion flexipes	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECHINODERMATA																											
Molpadia intermedia	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiridota albatrossi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0
Brisaster latifrons	7	2	1	0	1	0	1	2	1	0	0	0	0	0	0	4	4	1	0	0	0	0	0	2	3	1	0
Ophiura sarsi	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura leutkeni	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura leptoctenia	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Amphiopius strongylopiax	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIVALVIA																											
Adontorhina cyclia	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m2

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
Adontorhina ferruginosa	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0
Axinopsida serricata	2	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cardiomya pectinata	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delectopecten vitreus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiatella arctica	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macoma carlottensis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Macoma calcarea	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Modiolus rectus	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nuculana fossa	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poromya c.f. trosti	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tellina carpenteri	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thyasira gouldi	5	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	3	1	0	0	5	1	3	0	0	0
Yoldia martyria	2	2	0	1	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0
GASTROPODA																											
Bittium eunitum	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Cylichna alba	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cylichna attonsa	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Margarites pupillus	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POLYPLACOPHORA																											
Chaetopleura gemma	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCAPHOPODA																											
Cadulus aberrans	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadulus tolmiei	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dentalium pretiosum	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APLACOPHORA																											
Chaetoderma attenuatum	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetoderma robustum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAUDOFAVEATA																											
Crystallophrisson	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
POLYCHAETA																											
Amphictels scaphobranchiata	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampharete finmarchica	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Amphictene auorei	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ancistrosyllis groenlandica	3	0	0	6	0	1	0	1	1	0	0	0	0	1	0	1	4	0	4	0	0	1	0	1	8	6	1

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m2

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
Anobothrus gracilis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aricidea catherinae	0	0	0	0	0	0	0	0	0	0	0	0	0	7	8	0	0	0	0	0	0	0	0	0	0	8	15
Aricidea lopezi	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Aricidea neosuecica	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	4	1	0
Aricidea quadrilobata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0
Aricidea	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Artacamella hancocki	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asclerocheilus beringianus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barantolla americana	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brada sachalina	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capitellidae	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3
Chaetozone	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone spinosa	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
Cossura longocirrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Cossura ?modica	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1
Decamastus gracilis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dorvillea rudolphi	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Eteone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Eulalia viridis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exogone lourei	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flabelligera affinis	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Galathowenia oculata	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gattyana	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycera capitata	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Glycinde armigera	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Goniada annulata	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gyptis brevipalpa	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Harmothoe lunulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Heteromastus filobranchus	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idanthyrsus ornamentatus	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lepidonotus squamatus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Levinsenia gracilis	0	2	5	2	1	0	0	0	2	0	0	0	0	0	0	8	8	4	3	0	0	2	4	0	1	6	5
Lumbrineris luti	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	2	0	0
Lumbrineris	7	7	7	6	0	0	0	2	11	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m2

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
Naidane glabifex	0	0	0	0	1	0	0	0	68	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Naidanidae	0	0	2	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nedomaetus californiensis	0	0	29	10	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
Nelinna elisabethae	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Nesochaetopterus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nephtys cornuta cornuta	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9	13	1	1	0	0	0	0	0	10	19	26
Nephtys ferruginea	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nephtys punctata	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ninoe gemmea	0	0	0	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odontosyllis phosphorea	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophelia fusiformis	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onuphis	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onuphis iridescens	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraninoe simplo	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Pettibonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Pholoe minuta	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Pholoides aspera	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phyllochaetopterus claparedii	0	0	1	1	0	0	0	0	0	0	1	1	0	18	19	10	0	0	4	0	0	0	0	1	3	0	0
Polynoidae	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycirrus sp. complex	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Praxillella gracilis	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio steenstrupi	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0
Protodorvillea gracilis	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhodine bitorquata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
Sabellidae	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scionella estevanica	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerosyllis hystrix	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiophanes broyeri	0	0	4	4	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Sternaspis scutata	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syllidae	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Syllis elongata	0	0	2	5	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syllis heterochaeta	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Terebellidae	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Terebellides stroemi	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tharyx multifilis	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m2

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
Travisia pupa	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Travisia	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTEA																											
Tubulanus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Cerebratulus	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteronemertean	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTINEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
SIPUNCULIDA																											
Sipunculida sp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thysanocardia nigra	7	1	30	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Golfingia vulgaris	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDROZOA																											
Abietinaria	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sertularella	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTHOZOA																											
Pachycerianthus fimbriatus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Virgularia cystiforus	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C: Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3B01A	3B01B	3BU1A	3BU1B	3BU2A	3BU2B	3BU3A	3BU3B	3BU5A	3BU5B	3BU6A	3BU6B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
AMPHIPODA																								
Bathymedon pumilus	0	0	1	0	2	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Caprella striata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calliopius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyphocaris challengeri	0	0	0	0	3	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	2	0	0	0
Harpiniopsis fulgens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Heterophoxus oculatus	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Hyperia ?medusarum	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lysianassidae	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monoculodes zernovi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraphoxus oculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parathemisto pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Photis ?lacia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Primno macropa	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhachotropis clemens	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Schisturella cocula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scina borealis	0	0	0	0	1	0	0	2	1	3	0	1	0	1	0	0	0	0	2	0	0	0	1	1
Hyaidacea	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CUMACEA																								
Eudorella pacifica	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eudorellopsis integra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leucon nasica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diastylis cf. spinulosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA																								
Pinnixa sp.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapod larvae	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paguroidea juv.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraphaea pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris holmesi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris sp.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TANAIDACEA																								
Araphura brevicorne	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Appendix C: Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3B01A	3B01B	3BU1A	3BU1B	3BU2A	3BU2B	3BU3A	3BU3B	3BU5A	3BU5B	3BU6A	3BU6B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
AMPHIPODA																								
Bathymedon pumilus	0	0	1	0	2	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Caprella striata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calliopius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyphocaris challengeri	0	0	0	0	3	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	2	0	0	0
Harpiniopsis fulgens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Heterophoxus oculatus	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Hyperia ?medusarum	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lysianassidae	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monoculodes zernovi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraphoxus oculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parathemisto pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Photis ?lacia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Primno macropa	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhachotropis clemens	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Schisturella occula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scina borealis	0	0	0	0	1	0	0	2	1	3	0	1	0	1	0	0	0	0	2	0	0	0	1	1
Hyoidacea	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CUMACEA																								
Eudorella pacifica	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eudorellopsis integra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leucon nasica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diastylis cf. spinulosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA																								
Pinnixa sp.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapod larvae	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paguroidea juv.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraphoxus pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris holmesi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris sp.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TANAIDACEA																								
Araphura brevicorn	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3B01A	3B01B	3BU1A	3BU1B	3BU2A	3BU2B	3BUSA	3BUSB	3BUSA	3BUSB	3BU6A	3BU6B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
Leptognathia gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSTRACODA																								
Alacia alata minor	0	0	0	0	3	0	0	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Sclerocancha trituberculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Euphilomedes producta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diasterope pilosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraconchoecia elegans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EUPHASIACEA																								
Euphausiacea parts	0	1	1	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thysanoessa pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Euphausia pacifica	0	2	0	0	6	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	6	2
Nematoscelis difficilis	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
ECHINODERMATA																								
Molpadia intermedia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiridota albatrossi	0	5	0	0	0	0	0	0	2	3	0	2	0	0	0	0	0	0	0	0	1	0	0	0
Brisaster latifrons	0	0	1	1	0	0	0	0	2	0	1	1	0	0	0	0	0	0	0	1	1	0	1	0
Ophiura sarsi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura leptoctenia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura sp. juv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amphiopius strongyloplax	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Ophiacantha	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Stichaeidae	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leuroglossus stilbius schmidtii	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
BIVALVIA																								
Adontorhina ferruginosa	0	0	0	1	0	1	0	0	1	1	0	0	0	0	0		0	0	0	0	4	0	4	0
Axinopsida serricata	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardiomya oldroydi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardiomya planetica	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Lucinoma annulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nacoma carlottensis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nucula tenuis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Psephidia lordi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solamya reidi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1	1	0	0	0	0	0
Thyasira gouldi	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Yoldia martyria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	38D1A	38D1B	38U1A	38U1B	38U2A	38U2B	38U3A	38U3B	38U5A	38U5B	38U6A	38U6B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
Yoldia thraciaeformis	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GASTROPODA																								
Cylichna alba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cylichna attonsa	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0		1	0	0	0	0	0	1	0
Leptogyra alaskana?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrella gausapata	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbonilla aurantia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCAPHOPODA																								
Cadulus toleiei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Rhabdus rectius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APLACOPHORA																								
Chaetoderma attenuatum	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0		0	0	0	0	1	0	0	0
Chaetoderma robustum	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	1	0
POLYCHAETA																								
Aglaophamus rubella anops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amage anops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amphictele ecaphobranchiata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampharetidae sp. Juv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Ancistrosyllis groenlandica	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	4	2	1	0	0	0
Anobothrus gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antinoella sacrolepida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aricia neocuecica	0	0	0	0	1	0	7	0	0	0	1	0	2	8	0	0	2	2	0	0	10	0	16	4
Aricia lopezi	0	0	4	13	20	4	9	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0
Axiia quadrilobata	0	0	0	0	2	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Axiocheilus beringianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barantolla americana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Artacamella hancocki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Brada sachalina	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brada villosa	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone sp. 1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone spinosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chone sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cirrophorus branchiatus	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cossura sp. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cossura longocirrata	0	0	7	14	5	0	30	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3B01A	3B01B	3BU1A	3BU1B	3BU2A	3BU2B	3BU3A	3BU3B	3BU5A	3BU5B	3BU6A	3BU6B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
Decamastus gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drilonereis falcata minor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exogone lourei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Galathowenia oculata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycera capitata	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	1
Glycera sp. indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycinde armigera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniada annulata	0	0	1	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gyptis brevipalpa	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Leitoscoloplos pugettensis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Maldanidae sp. indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteromastus filobranchus	0	0	0	0	0	0	3	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leonice cirrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Levinsenia gracilis	0	0	15	39	6	2	1	1	1	2	1	0	1	3	5	2	1	3	0	2	6	0	2	1
Lumbrineris bicirrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lumbrineris sp. indet.	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
Lumbrineris zonata	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Maldane glebifex	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0
Maldanidae sp. indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mediomastus californiensis	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melinna cristata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nephtys cornuta cornuta	0	0	0	0	2	1	3	4	0	0	0	0	0	4	0	0	1	0	0	0	1	0	2	0
Nephtys punctata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ninoe gemmea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nereis zonata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Notoproctus pacificus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onuphis juv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onuphis iridescens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pachycerianthus fimbriatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraninoe simpta	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Paranoidae sp. indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pherusa plumosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pectinaria californiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pectinaria quorei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pholoe minuta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3B01A	3B01B	3BU1A	3BU1B	3BU2A	3BU2B	3BU3A	3BU3B	3BU5A	3BU5B	3BU6A	3BU6B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
Phyllochaetopterus claparedii	0	0	24	48	61	56	16	28	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Pista moorei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polydora sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycirrus sp. complex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polynoidae sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio lighti	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Prionospio steenstrupi	0	0	2	2	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhodine bitorquata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spionidae sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	4
Sabellaria cementarium	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Spiophanes kroyeri	0	0	0	0	2	0	1	0	0	0	0	0	0	3	0	0	0	0	1	0	15	0	0	0
Sternaspis scutata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syllis heterochaeta	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0
Terebellidae sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Terebellides stroemi	0	0	0	0	1	0	0	0	0	0	0	0	3	8	0	1	3	1	0	0	2	0	0	0
Tharyx sp. Indet.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tharyx multifilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomopteris sp. 1	0	0	0	0	0	0	3	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	0	0
Travisia forbesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGOCHAETA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTEA																								
Cerebratulus sp.	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteronemertea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Paleonemertea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTINEA																								
Nemertines sp. Indet.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	0
SIPUNCULA																								
Nephasoma minutum	0	0	0	0	0	0	0	0	0	0	0	0	2	10	0	6	4	4	0	0	11	0	0	0
HYDROZOA	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECHIURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

	SK11A	SK11B	SK12A	SK12B	SK13A	SK13B	SK14A	SK14B	SKN2A	SKN2B	SKN3A	SKN3B	SKN4A	SKN4B	SKN5A	SKN5B	SKN6A	SKN6B	SL01A	SL01B	SL02A	SL02B	SL03A	SL03B
AMPHIPODA																								
Bathymedon pumilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caprella striata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calliopius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Cyphocaris challengeri	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	4	1	1
Harpiniopsis fulgens	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterophoxus oculatus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperia ?medusarum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lysianassidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Monoculodes zernovi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraphoxus oculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parathemisto pacifica	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Photis ?lacia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Priene oscrops	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Rhachotropis clemens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Schisturella cecula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scina borealis	1	0	0	2	0	1	0	0	1	0	0	0	5	0	1	0	1	1	0	1	1	4	1	0
CUMACEA																								
Eudorella pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Eudorellopsis integra	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Leucon nasica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diastylis cf. spinulosa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA																								
Pinnixa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapod larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
.egaroidea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paralphaea pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris holmesi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TANAIDACEA																								
Arapkura brevicaua	0	0	0	0	0	0	3	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
Leptognathia gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSTRACODA																								
Alacia alata minor	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

	SK11A	SK11B	SK12A	SK12B	SK13A	SK13B	SK14A	SK14B	SKN2A	SKN2B	SKN3A	SKN3B	SKN4A	SKN4B	SKN5A	SKN5B	SKN6A	SKN6B	SL01A	SL01B	SL02A	SL02B	SL03A	SL03B
Scleroconcha trituberculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Euphilomedes producta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diasterope pilosa	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paraconchoecia elegans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EUPHAUSIACEA																								
Euphausiacea parts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thysanoessa pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Euphausia pacifica	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0
Nematoscelis difficilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MYSIDACEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECHINODERMATA																								
Molpadia intermedia	0	1	0	1	2	1	0	1	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0
Chiridota albatrossi	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	2	2	2	1	0
Brisaster latifrons	0	0	0	1	1	0	1	0	0	0	5	3	1	1	8	0	0	1	1	0	0	0	0	0
Ophiura sarsi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	0	0
Ophiura leptoctenia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
Ophiura	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	1	4	0	0	0	0	0	0
Amphiopius strongyliplax	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ophiacantha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichaeidae	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leuroglossus stilbius schmidti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BIVALVIA																								
Adontorhina ferruginosa	2	0	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0
Axinopsida serricata	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cardiomya oldroydi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cardiomya planetica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lucinoma annulata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macoma carlottensis	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Nucula tenuis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Psephidia lordi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solamya reidi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thyasira gouldi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Yoldia martyria	3	1	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	4	1	0	0
Yoldia thraciaeformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

	SK11A	SK11B	SK12A	SK12B	SK13A	SK13B	SK14A	SK14B	SKN2A	SKN2B	SKN3A	SKN3B	SKN4A	SKN4B	SKN5A	SKN5B	SKN6A	[illegible]4B	SL01A	SL01B	SL02A	SL02B	SL03A	SL03B
GASTROPODA																								
Cylichna alba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Cylichna attonsa	0		0	2	0	1	0	0	1	0	1	1	0	0	1	0	1	0	0	2	0	1	1	2
Leptogyra alaskana?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mitrella gausapata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbonilla aurantia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCAPHOPODA																								
Cadulus tolmiei	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhabdus rectius	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3	0	2	0	0	0	0	0	0	0
APLACOPHORA																								
Chaetoderma attenuatum	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	0	0
Chaetoderma robustum	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0
POLYCHAETA																								
Aglaophamus rubella anops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Ampe anops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amphicteis scaphobranchiata	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ancistrosyllis groenlandica	0	0	0	0	0	0	0	0	1	0	0	0	7	0	3	1	6	0	0	0	0	0	0	0
Anobothrus gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Antinoella sarsi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aricia nearctica	1	0	4	17	4	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0
Aricia lopezi	0	0	0	0	0	1	0	0	0	0	0	0	8	1	3	0	0	0	0	0	0	0	0	1
Ailia quadrilobata	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asclerachelius beringianus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barantolla americana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Artacamella hancocki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brada aschaline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brada villosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone spinosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cherie	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirrophorus branchiatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0
Coesura	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coesura longocirrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

	SK11A	SK11B	SK12A	SK12B	SK13A	SK13B	SK14A	SK14B	SKM2A	SKM2B	SKM3A	SKM3B	SKM4A	SKM4B	SKM5A	SKM5B	SKM6A	SKM6B	SL01A	SL01B	SL02A	SL02B	SL05A	SL03B
Decamastus gracilis	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drilonereis falcata minor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exogone lourei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
Galathowenia oculata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0
Glycera capitata	0	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Glycera	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Glycinde armigera	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Goniada annulata	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1	0	0	0	0	0	0
Gyptis brevipalpa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Leitoscoloplos pugettensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Maldanidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Heteromastus filobranchus	0	0	0	0	4	1	0	0	0	0	0	0	0	2	9	2	1	4	0	0	2	0	0	0
Laonice cirrata	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lovinoenia gracilis	5	2	0	0	0	0	0	0	3	0	0	2	6	4	4	0	0	1	0	0	0	1	2	2
Lumbrineris bicirrata	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lumbrineris	0	0	2	0	8	0	0	0	1	0	0	0	0	0	0	0	9	1	1	2	2	0	0	0
Lumbrineris zonata	0	0	0	0	0	1	0	0	0	0	1	0	1	3	2	1	0	0	0	0	0	0	0	0
Maldane glabifex	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	1	0	0	1	5	11	0	0
Maldanidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus californiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melinna cristata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nephtys cornuta cornuta	1	0	0	3	1	4	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	0
Nephtys punctata	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ninoe gemmea	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nereis zonata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0
Notoproctus pacificus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onuphis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onuphis iridescens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
Pachycerianthus fimbriatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Paraninoe elapta	0	0	1	0	0	2	0	0	0	0	1	0	1	2	0	0	1	1	0	0	0	0	0	0
Paranoidae	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Pherusa plumosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pectinaria californiensis	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Pectinaria snorei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

	3K11A	3K11B	3K12A	3K12B	3K13A	3K13B	3K14A	3K14B	3KN2A	3KN2B	3KN3A	3KN3B	3KN4A	3KN4B	3KN5A	3KN5B	3KN6A	3KN6B	3L01A	3L01B	3L02A	3L02B	3L03A	3L03B
Pholoe minuta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0
Phyllochaetopterus claparedii	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pista moorei	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polydora	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polycirrus complex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Prionospio lighti	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio steenstrupi	6	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhodine bitorquata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spionidae	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	8	0	0	0	0	0	0	0	0
Sabellaria cementarium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spiophanes kroyeri	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sternaspis scutata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syllis heterochaeta	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Terebellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Terebellides stroemi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0
Tharyx	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tharyx multifilis	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Travisia forbesii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomopteris	4	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLIGOCHAETA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTEA																								
Cerebratulus	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heteronemertea	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Paleonemertea	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIPUNCULA																								
Nephasoma minutum	0	0	0	0	0	8	0	0	23	11	0	0	0	0	0	1	0	0	3	6	0	0	0	0
HYDROZOA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECHIURA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	SL04A	SL04B	STH2A	STH2B	ST01A	ST01B	ST02A	ST02B	ST03A	ST03B	SU44A	SU44B
AMPHIPODA												
Bathymedon pumilus	0	0	0	0	0	0	0	0	1	0	0	0
Caprella striata	0	0	0	0	1	0	0	0	0	0	0	0
Calliopius	0	0	0	0	0	0	0	0	0	0	0	0
Cyphocaris challengeri	0	1	1	0	1	0	0	0	0	0	1	0
Harpiniopsis fulgens	0	0	0	0	0	0	0	0	0	0	3	2
Heterophoxus oculatus	0	0	0	1	0	0	0	0	0	0	0	0
Hyperia ?medusarum	0	0	0	0	0	0	0	0	0	0	0	0
Lysianassidae	0	0	0	0	0	0	0	0	0	0	0	0
Monoculodes zernovi	0	0	1	0	0	0	0	0	0	0	0	0
Paraphoxus oculatus	0	0	0	1	0	0	0	0	0	0	1	2
Parathemisto pacifica	0	0	1	0	0	0	0	0	0	0	1	1
Photis ?lacia	0	0	0	5	0	0	0	0	0	0	0	0
Primno macropa	0	0	0	0	0	0	0	0	0	0	0	0
Rhachotropis clemens	0	0	0	0	0	0	0	0	0	0	0	0
Schisturella occulo	0	0	0	0	0	0	0	0	0	0	0	0
Scina borealis	0	2	0	0	0	0	0	0	1	0	1	0
CUMACEA												
Eudorella pacifica	0	1	0	0	0	0	0	0	0	0	0	0
Eudorellopsis integra	0	0	0	0	0	0	0	0	0	0	0	0
Leucon nasica	0	0	1	0	0	0	0	0	0	0	0	0
Diastylis cf. spinulosa	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA												
Pinnixa	0	0	1	2	0	0	0	0	0	0	0	0
Decapod larvae	0	0	0	0	0	0	0	0	0	0	0	0
Paguroidea	0	0	0	0	0	0	0	0	0	0	0	0
Paralphaea pacifica	0	0	0	0	0	1	0	0	0	0	1	0
Spirontocaris holmesi	0	0	0	0	1	0	0	0	0	0	0	0
Spirontocaris	0	0	0	0	0	0	0	0	0	0	0	0
TANAIDACEA												
Araphura brevicaua	0	0	0	0	0	0	0	0	5	0	0	0
Leptognathia gracilis	0	1	0	0	0	0	0	0	0	0	0	0
OSTRACODA												
Alacia alata elner	0	0	0	0	0	0	2	0	0	0	0	0
Sclerosoncha trituberculatus	0	0	0	7	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3W44A	3W44B
Euphilomedes producta	0	0	0	1	0	0	0	0	0	0	0	0
Diasterope pilosa	0	0	0	0	0	0	0	0	0	0	0	0
Paraconchoecia elegans	0	0	0	0	0	0	1	0	0	0	0	0
EUPHAUSIACEA												
Euphausiacea parts	0	0	0	0	0	0	0	0	0	0	0	0
Thysanoessa pacifica	0	0	0	0	0	0	0	0	0	0	0	0
Euphausia pacifica	1	4	0	0	1	1	1	0	0	0	0	0
Nematoscelis difficilis	0	0	0	0	0	0	0	0	0	0	0	0
MYSIDACEA	0	0	0	0	0	0	0	0	0	0	0	0
ECHINODERMATA												
Molpadia intermedia	0	1	0	0	0	0	0	0	0	0	0	0
Chiridota albatrossi	0	0	0	0	0	0	0	0	0	3	0	0
Brisaster latifrons	0	0	1	0	0	0	2	1	4	4	0	3
Ophiura sarsi	0	0	2	0	0	0	0	0	0	0	0	0
Ophiura leptoctenia	0	0	0	0	0	0	0	0	0	0	0	0
Ophiura	0	0	0	0	0	0	0	0	0	0	0	0
Amphioplus strongylaplax	0	0	0	0	0	0	0	0	0	0	0	0
Ophiacantha	0	0	0	0	0	0	0	0	0	0	0	0
Stichaeidae	0	0	0	0	0	0	0	0	0	0	0	0
Louroglossus stilbius schmidtii	0	0	0	0	0	0	0	0	0	0	0	0
BIVALVIA												
Adontorhina ferruginosa	0	0	0	1	0	0	4	0	0	0	2	0
Axinopsida serricata	4	19	0	16	0	0	0	1	0	0	0	0
Cardiomya oldroydi	0	0	0	1	0	0	0	0	0	0	0	0
Cardiomya planetica	0	0	0	0	0	0	0	1	0	0	0	0
Lucinoma annulata	0	0	1	0	0	0	0	0	0	0	0	0
Macoma carlottensis	0	1	0	0	0	0	0	0	1	2	3	1
Nucula tenuis	0	0	0	1	0	0	0	0	0	0	0	0
Psephidia lordi	0	0	0	1	0	0	0	0	0	0	0	0
Solemya reidi	0	0	0	0	0	0	0	0	0	0	0	0
Thyasira gouldi	0	0	0	0	0	0	0	0	0	0	0	0
Yoldia martyria	0	0	0	0	3	1	0	2	0	0	0	0
Yoldia thraciaeformis	0	0	0	0	0	0	0	0	0	0	0	0
GASTROPODA												
Cylichna alba	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3W44A	3W44B
Cylichna attonsa	0	1	0	0	1	0	1	0	0	0	0	0
Leptogyra alaskana?	0	0	0	0	1	1	0	0	0	0	0	0
Nitrella gausapata	0	0	1	0	0	0	0	0	0	0	0	0
Turbonilla aurantia	0	1	0	0	0	0	0	0	0	0	0	0
SCAPHOPODA												
Cadulus tololei	0	0	0	0	0	0	0	0	0	0	0	0
Rhabdus rectius	0	0	0	0	0	0	0	0	0	0	0	1
APLACOPHORA												
Chaetoderma attenuatus	1	5	2	0	0	2	1	0	5	4	0	0
Chaetoderma robustum	0	0	1	0	0	0	0	0	0	0	0	0
POLYCHAETA												
Aglaophamus rubella arope	0	0	0	0	0	0	0	0	0	0	0	0
Ampe arope	0	0	0	2	0	0	0	0	0	2	0	0
Amphicteis scaphobranchiata	0	0	0	0	0	0	0	0	1	0	0	0
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0
Ancistrosyllis groenlandica	0	0	0	0	0	0	0	0	1	2	0	0
Anobothrus gracilis	0	0	0	1	0	0	0	0	0	0	0	0
Antinoella macrolepida	0	0	1	0	0	0	0	0	0	0	1	0
Acesta neosuecica	0	0	0	0	5	2	4	15	31	23	4	5
Acesta lopezi	0	3	0	0	0	0	0	0	4	0	0	0
Atlia quadrilobata	0	0	0	0	0	0	0	0	0	0	0	0
Asclerachelius beringianus	0	1	0	0	0	0	0	0	0	0	0	0
Barantolla americana	1	0	0	0	0	0	0	0	0	0	0	0
Artacamella hancocki	0	0	0	0	0	0	0	0	0	0	0	0
Brada eschalina	0	0	0	0	0	0	0	0	0	0	0	0
Brada villosa	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone spinosa	0	0	0	0	0	0	0	0	0	0	2	12
Chone	0	0	0	0	0	0	0	1	0	0	0	0
Cirrophorus branchiatus	0	1	0	0	0	0	0	0	0	0	0	0
Coeasura	0	0	0	0	0	0	0	0	5	0	1	3
Coeasura longicirrata	0	0	0	0	0	0	0	0	2	0	4	4
Decamastus gracilis	0	1	0	0	0	0	0	0	0	1	0	0
Drilonereis falcata ather	0	0	0	2	0	0	0	0	0	0	0	0
Eteone lourei	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3L04a	3L04B	3TH2a	3TH2B	3T01a	3T01B	3T02a	3T02B	3T03a	3T03B	3W44A	3W44B
Galathowenia oculata	0	2	1	31	0	0	0	0	1	1	0	0
Glycera capitata	1	8	0	0	0	0	0	0	8	5	2	2
Glycera	0	0	0	0	0	0	0	0	1	0	0	0
Glycinde armigera	0	2	0	3	0	0	0	0	0	2	0	1
Goniada annulata	0	2	0	0	0	0	0	0	0	1	0	0
Gyptis brevipalpa	1	1	0	0	0	0	0	0	0	0	0	0
Laitoscoloplos pugettensis	0	0	0	0	0	0	0	0	0	0	0	0
Maldanidae	0	0	0	0	0	0	0	0	0	0	0	0
Heteromastus filobranchus	18	6	0	0	0	0	0	0	0	2	0	2
Leonice cirrata	0	0	0	0	0	0	0	0	0	0	1	0
Levinsenia gracilis	0	0	0	1	0	0	2	1	5	3	16	8
Lumbrineris bicirrata	0	0	0	0	0	0	0	0	0	0	1	0
Lumbrineris	1	7	0	8	0	0	0	0	26	17	2	5
Lumbrineris zonata	0	0	0	0	0	0	0	0	2	2	0	0
Maldane glebifex	2	10	2	64	0	0	0	3	5	0	0	0
Maldanidae	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus californiensis	0	4	0	0	0	0	0	0	0	1	0	0
Melinna cristata	0	0	0	3	0	0	0	0	0	3	0	0
Nephtys cornuta cornuta	0	0	1	0	0	0	0	0	3	0	13	4
Nephtys punctata	0	0	0	0	1	0	0	0	0	0	0	0
Ninoe gemmea	0	0	0	0	0	0	0	0	0	0	1	0
Nereis zonata	0	0	0	0	0	0	0	0	0	0	0	0
Notoproctus pacificus	0	0	0	2	0	0	0	0	0	0	0	0
Onuphis	0	0	0	1	0	0	0	0	0	0	0	0
Onuphis iridescens	0	0	1	5	0	0	0	0	0	0	0	0
Pachycerianthus fimbriatus	0	0	0	0	0	0	0	0	0	0	0	0
Paraninoe aspta	0	0	0	0	0	0	0	0	0	0	0	0
Paraonidae	0	0	0	0	0	0	0	0	0	0	0	0
Pherusa plumosa	0	0	0	2	0	0	0	0	0	0	0	0
Pectinaria californiensis	0	3	0	0	0	0	0	0	0	0	0	0
Pectinaria emerol	0	0	0	0	0	0	0	0	0	0	0	1
Pholoe minuta	0	0	0	0	0	0	0	0	0	0	0	0
Phyllochaetopterus claparedii	0	0	0	1	0	0	0	0	0	0	0	0
Pista emerol	0	0	1	1	0	0	0	0	0	0	0	0
Polydora	0	0	0	0	0	0	0	0	2	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m2

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3W44A	3W44B
Polycirrus complex	1	0	0	0	0	0	0	0	0	0	0	0
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	1
Prionospio lighti	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio steenstrupi	3	0	0	1	0	0	0	0	46	5	2	3
Rhodine bitorquata	2	1	0	15	0	0	0	0	3	5	2	0
Spionidae	0	0	0	0	0	0	0	0	0	0	5	0
Sabellaria cementarium	0	0	0	0	0	0	0	0	0	0	0	0
Spiophanes kroyeri	0	0	0	0	0	0	1	0	1	0	0	0
Eteronepis acutata	0	0	0	0	0	0	1	0	0	1	0	1
Syllis heterochaeta	0	0	0	0	0	0	0	0	0	0	0	0
Terebellidae	0	0	0	0	0	0	0	0	0	0	0	0
Terebellides stroemi	0	0	0	0	1	0	0	2	1	0	0	0
Tharyx	0	0	0	0	0	0	0	0	1	0	1	2
Tharyx multifilis	0	0	1	0	0	0	0	0	0	0	0	0
Travisia forbesii	0	0	0	2	0	0	0	0	0	0	0	0
Nemertinea	0	0	0	0	0	0	2	0	0	3	0	0
Tomopteris	1	0	0	0	0	0	0	0	0	0	0	0
OLIGOCHAETA	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTEA												
Cerebratulus	0	1	0	0	0	0	0	0	2	0	0	0
Heteronemertea	0	0	0	0	0	0	0	0	0	0	0	0
Paleonemertea	0	0	0	0	0	0	0	0	0	0	0	1
SIPUNCULA												
Nephasoma minutum	0	0	0	15	0	0	0	0	0	0	0	0
HYDROZOA	0	0	0	0	0	0	0	0	0	0	0	0
ECHIURA	0	0	0	0	0	0	0	0	0	0	0	0